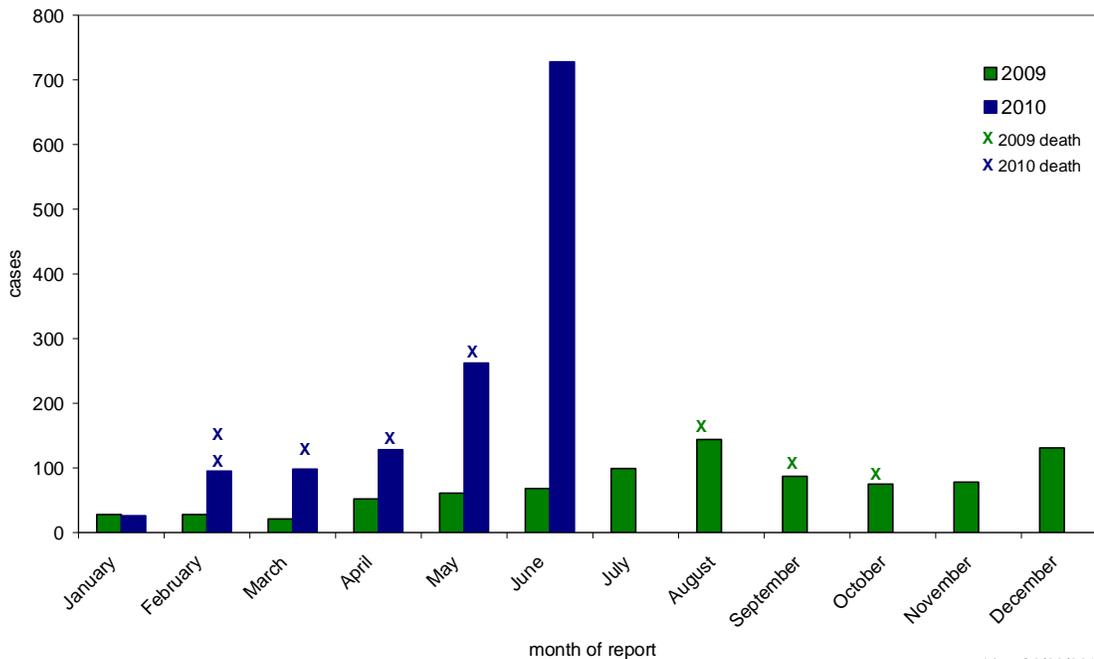


California Pertussis Summary Report

6/30/2010

- To date (6/30/2010), there have been **1,337** cases of pertussis reported in 2010 for a state rate of **3.4 cases/100,000**. This is a **5-fold increase** from the number of reported cases during the same time period in 2009 when **258** cases were reported (Figure 1).
- An additional 700 cases are currently under investigation at local health jurisdictions.
- If current trends continue, it is possible that California will see more cases of pertussis than it has seen in over 50 years.
- **112 (17%) cases are known to have been hospitalized** (however, hospitalization information only available for 670 (50%) of cases); 69 (62%) of hospitalized cases were infants <3 months of age and 88 (79%) were infants <6 months of age.
- **5 deaths** have been reported, all in infants <2 months of age at time of disease onset; none had received any doses of pertussis-containing vaccine. The majority of infant cases in 2010 have occurred in infants <3 months of age.
- County rates range from 0 to >70 cases/100,000 (Table 1), however these data do not reflect cases that have not yet been reported to CDPH.
- Rates are highest in infants <6 months of age (69.6 cases/100,000), in children aged 7-9 years (10.2 cases/100,000) and adolescents aged 10-18 years (9.3 cases/100,000) (Figure 2).
- Overall rates by race/ethnicity are highest in whites (3.3/100,000), however age-specific rates indicate that the highest rates are seen in Hispanic infants <6 months of age (94.2/100,000); disproportionately high rates are also observed in whites aged 7-18 years (Table 2).

Figure 1. Epidemic curve of pertussis cases by month of report and pertussis deaths by month of onset -- California, 2009-2010*



*As of 6/30/2010

Table 1. Pertussis cases reported to CDPH from January 1 through June 30 by county -- California, 2009, 2010

| | 2009 | | 2010 | |
|-----------------|-------|-------|-------|-------|
| | Cases | Rate* | Cases | Rate* |
| CALIFORNIA | 258 | 0.66 | 1337 | 3.42 |
| ALAMEDA | 5 | 0.32 | 37 | 2.40 |
| ALPINE | 0 | 0.00 | 0 | 0.00 |
| AMADOR | 1 | 2.51 | 0 | 0.00 |
| BUTTE | 1 | 0.44 | 0 | 0.00 |
| CALAVERAS | 7 | 14.83 | 2 | 4.24 |
| COLUSA | 0 | 0.00 | 1 | 4.29 |
| CONTRA COSTA | 4 | 0.38 | 32 | 3.01 |
| DEL NORTE | 0 | 0.00 | 16 | 52.23 |
| EL DORADO | 2 | 1.07 | 5 | 2.68 |
| FRESNO | 10 | 1.04 | 177 | 18.35 |
| GLENN | 0 | 0.00 | 0 | 0.00 |
| HUMBOLDT | 9 | 6.72 | 9 | 6.72 |
| IMPERIAL | 0 | 0.00 | 5 | 2.71 |
| INYO | 0 | 0.00 | 0 | 0.00 |
| KERN | 0 | 0.00 | 25 | 2.93 |
| KINGS | 2 | 1.24 | 14 | 8.69 |
| LAKE | 0 | 0.00 | 1 | 1.50 |
| LASSEN | 0 | 0.00 | 0 | 0.00 |
| LOS ANGELES | 53 | 0.51 | 36 | 0.34 |
| MADERA | 5 | 3.16 | 46 | 29.07 |
| MARIN | 6 | 2.37 | 195 | 76.92 |
| MARIPOSA | 0 | 0.00 | 0 | 0.00 |
| MENDOCINO | 4 | 4.33 | 3 | 3.24 |
| MERCED | 2 | 0.75 | 20 | 7.47 |
| MODOC | 0 | 0.00 | 0 | 0.00 |
| MONO | 0 | 0.00 | 0 | 0.00 |
| MONTEREY | 1 | 0.23 | 18 | 4.18 |
| NAPA | 0 | 0.00 | 5 | 3.55 |
| NEVADA | 0 | 0.00 | 0 | 0.00 |
| ORANGE | 10 | 0.31 | 66 | 2.07 |
| PLACER | 3 | 0.88 | 17 | 4.99 |
| PLUMAS | 0 | 0.00 | 0 | 0.00 |
| RIVERSIDE | 17 | 0.78 | 37 | 1.70 |
| SACRAMENTO | 8 | 0.56 | 16 | 1.11 |
| SAN BENITO | 2 | 3.20 | 1 | 1.60 |
| SAN BERNARDINO | 6 | 0.28 | 9 | 0.42 |
| SAN DIEGO | 33 | 1.04 | 95 | 3.00 |
| SAN FRANCISCO | 9 | 1.11 | 15 | 1.84 |
| SAN JOAQUIN | 2 | 0.28 | 3 | 0.41 |
| SAN LUIS OBISPO | 0 | 0.00 | 193 | 72.03 |
| SAN MATEO | 6 | 0.82 | 31 | 4.22 |
| SANTA BARBARA | 5 | 1.16 | 1 | 0.23 |
| SANTA CLARA | 6 | 0.33 | 24 | 1.32 |
| SANTA CRUZ | 14 | 5.25 | 28 | 10.50 |
| SHASTA | 0 | 0.00 | 4 | 2.12 |
| SIERRA | 0 | 0.00 | 0 | 0.00 |
| SISKIYOU | 1 | 2.13 | 2 | 4.27 |
| SOLANO | 2 | 0.46 | 3 | 0.69 |
| SONOMA | 4 | 0.81 | 55 | 11.19 |
| STANISLAUS | 5 | 0.91 | 50 | 9.10 |
| SUTTER | 1 | 1.00 | 2 | 2.00 |
| TEHAMA | 1 | 1.55 | 0 | 0.00 |
| TRINITY | 0 | 0.00 | 0 | 0.00 |
| TULARE | 8 | 1.75 | 29 | 6.35 |
| TUOLUMNE | 0 | 0.00 | 0 | 0.00 |
| VENTURA | 1 | 0.12 | 4 | 0.47 |
| YOLO | 2 | 0.99 | 2 | 0.99 |
| YUBA | 0 | 0.00 | 3 | 3.82 |

*rate per 100,000 population

Figure 2. Incidence of pertussis cases by race/ethnicity and age -- California, 2010

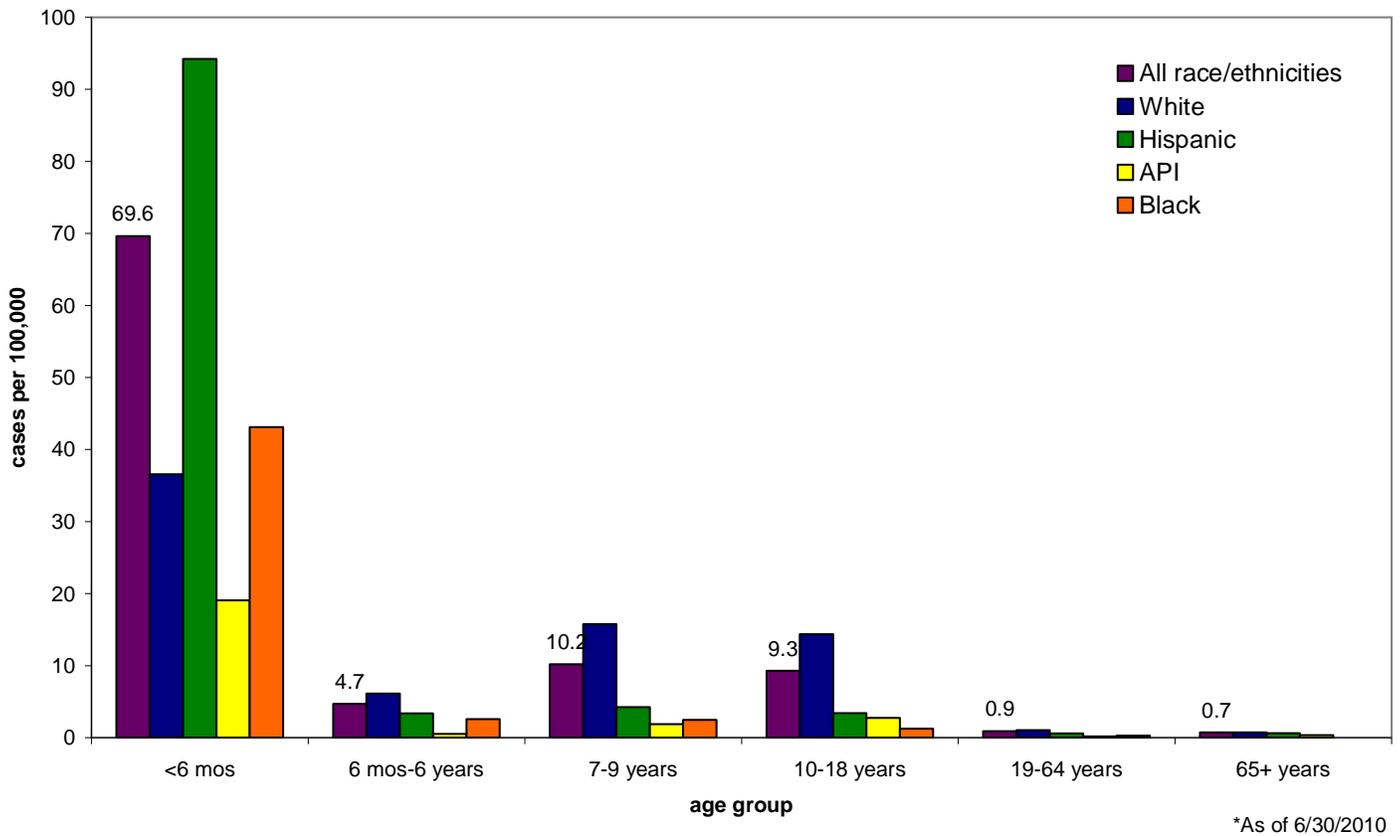


Table 2. Pertussis rate per 100,000 population of reported cases*, by race/ethnicity and age -- California, January 1 - June 30, 2010

| | <6 mos Rate | 6 mos-6 yrs Rate | 7-9 yrs Rate | 10-18 yrs Rate | 19-64 yrs Rate | 65+ yrs Rate |
|----------|----------------|---------------------|-----------------|-------------------|-------------------|-----------------|
| White | 36.6 | 6.1 | 15.8 | 14.4 | 1.0 | 0.7 |
| Hispanic | 94.2 | 3.4 | 4.3 | 3.4 | 0.6 | 0.6 |
| API | 19.1 | 0.5 | 1.9 | 2.8 | 0.2 | 0.3 |
| Black | 43.1 | 2.6 | 2.5 | 1.3 | 0.3 | 0.0 |

*out of 982 cases with known information